

INITIAL REVIEW EXPOSURE REPORT (IRExR)**Chemical ID: P-18-0118C****Reviewer: EvaWong/HDJ****Consolidated Cases: P-18-0118 & P-18-0119****Results Table: Dose, Concentration, and Days Exceeded Results Summary**

Exposure Scenario ¹	Water						Landfill	Stack Air		Fugitive Air	
Release activity(ies) ² ; exposure calculation(s) ³	Drinking Water		Fish Ingestion		7Q10 ⁴ CC =	PDM Days Exceeded	LADD	ADR (24-hr conc.)	LADD (Annual conc.)	ADR (24-hr conc.)	LADD (Annual conc.)
	ADR	LADD	ADR	LADD							
	mg/kg/day	mg/kg/day	mg/kg/day	mg/kg/day	µg/l	# Days	mg/kg/day	mg/kg/day (µg/m ³)	mg/kg/day (µg/m ³)	mg/kg/day (µg/m ³)	mg/kg/day (µg/m ³)
USE: Max ADR	2.09E-04	---	---	---	---	---	---	---	---	---	---
USE: Max LADD	---	2.60E-06	---	---	---	---	---	---	---	---	---

¹ Exposure scenario titles consist of release activity followed by exposure calculation abbreviation.² Release activities are from engineering report's Manufacturing (Mfg), Processing (Proc) and Use release activity labels. Multiple release activities are combined in one exposure scenario if their releases occur at same location.³ Exposure calculations are Acute Dose Rate (ADR), Lifetime Average Daily Dose (LADD), and Probabilistic Dilution Model (PDM). There may be one, two, or all three exposure calculations per exposure scenario. CC is the aquatic concentration of concern.⁴ This column displays concentration values for the 7Q10 streamflow, which is defined as the average daily streamflow of the seven consecutive days of lowest flow within a ten year period.**Remarks:****USE – POTWs All**

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-18-0118

Assessor: EvaWong/HDJ

ENVIRONMENTAL RELEASES

Scenario#:1

Number of Release Sites: 25.

Release Activity: USE: Max ADR

Release Description:	WATER	LANDFILL Non-sludge/Sludge	STACK	FUGITIVE
Total Releases:	315.65 (kg/yr)	N/A (kg/yr)	N/A (kg/yr)	N/A (kg/yr)

	Non-sludge/Sludge			
Release Days/yr:	118.00	0.00/0.00	N/A	N/A
Per Site Release:	0.11 (kg/site/day)	N/A/0.00 (kg/site/day)	N/A (kg/site/day)	N/A (kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-18-0118

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 1

Number of Sites: 25

RELEASE ACTIVITY:USE: Max
ADR

SIC-CODE DESCRIPTION: POTW's (All facilities)

SIC-CODE (S): 4952

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
90.00	118.	0.107	1.07E-02	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	125.56	44.02	26.80	22.53	8.52E-02	0.24	0.40	0.47
ALL	10	11.11	1.94	1.06	0.96	0.96	5.52	10.09	11.15

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD _{pot}	1.52E-07	1.71E-06	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	1.17E-05	1.32E-04	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	9.21E-06	2.09E-04	mg/kg/day	0.00	0.00	mg/kg/day

SIC Code Comments:

Chemical ID: P-18-0118

ENVIRONMENTAL RELEASES

Number of Release Sites: 25.

Release Description:	WATER	LANDFILL	STACK	FUGITIVE
		Non-sludge/Sludge		

	Non-sludge/Sludge			
Release Days/yr:	1.00	0.00/0.00	N/A	N/A
Per Site Release:	19.16	N/A/0.00	N/A	N/A
	(kg/site/day)	(kg/site/day)	(kg/site/day)	(kg/site/day)

Remarks:

INITIAL REVIEW EXPOSURE REPORT

Chemical ID: P-18-0118

SIC-CODE BASED HUMAN AND AQUATIC EXPOSURES TO SURFACE WATER RELEASES

SCENARIO #: 2

Number of Sites: 25

RELEASE ACTIVITY:USE: Max
LADD

SIC-CODE DESCRIPTION: POTW's (All facilities)

SIC-CODE (S): 4952

EXPOSED POPULATION: Adult

WWT REMOVAL (%)	RELEASE DAYS	PRETREATMENT RELEASE (kg/site/day)	POSTTREATMENT RELEASE (kg/site/day)	DWT (%)	BCF (L/kg)
90.00	1.	19.15	1.92	0.00	0.00

AQUATIC EXPOSURE ESTIMATES - SURFACE WATER									
PLANT TYPE	% ILE FACILITY	STREAM FLOW (MLD)				STREAM CONC. (µg/l)			
		Harmonic Mean	30Q5	7Q10	1Q10	Harmonic Mean	30Q5	7Q10	1Q10
ALL	50	125.56	44.02	26.80	22.53	N/A	N/A	N/A	N/A
ALL	10	11.11	1.94	1.06	0.96	N/A	N/A	N/A	N/A

DRINKING WATER AND FISH INGESTION EXPOSURE ESTIMATES						
Exposure Units	Drinking Water Results		Drinking Water Units	Fish Ingestion Results		Fish Ingestion Units
	50%	10%		50%	10%	
Cancer						
LADD _{pot}	2.30E-07	2.60E-06	mg/kg/day	0.00	0.00	mg/kg/day
LADC _{pot}	1.77E-05	2.00E-04	mg/L	0.00	0.00	mg/kg
Acute						
ADR _{pot}	N/A	N/A	mg/kg/day	N/A	N/A	mg/kg/day

SIC Code Comments: